

Questionnaire for malaria outbreak investigation

Status of the respondent

- ☐ case
- ☐ control

Socio-demographic information

Q1. Region

- ☐ SWERP
- ☐ Other

Q2. Zone

- ☐ Dawro
- ☐ konta
- ☐ kaffa
- ☐ bench sheko
- ☐ sheka
- ☐ west omo

Q3. woreda

- ☐ Loma Bossa
- ☐ Zaba Gazo
- ☐ Gena
- ☐ Disa
- ☐ Essera
- ☐ Gessa Town
- ☐ Kechi
- ☐ Mareka
- ☐ Mari mansa
- ☐ Tarcha Town
- ☐ Tarcha Zuriya
- ☐ Tocha

Q4. kebeles

- ☐ zima waruma
- ☐ deneba bola
- ☐ yelo worbete
- ☐ afuki woiro

Q5. village

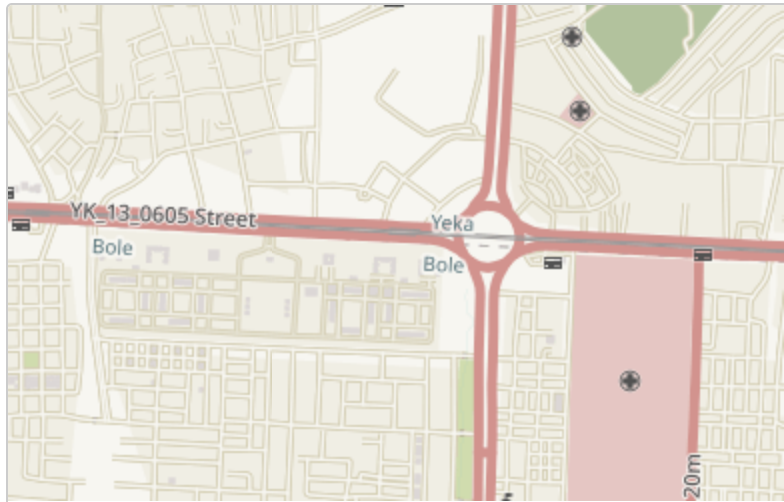
Q6. location

latitude (x.y °)

longitude (x.y °)

altitude (m)

accuracy (m)

**Q7. sex**

- ☐ male
- ☐ female

Q8. age*in years*

Q9. Occupation

- ☐ student
- ☐ government employed
- ☐ farmer
- ☐ pastoralist
- ☐ merchant
- ☐ Not applicable
- ☐ others

Q10. Family size

Q11. Ethnicity

- ☐ dawro
- ☐ konta
- ☐ kaffa
- ☐ welayta
- ☐ amhara
- ☐ oromo
- ☐ others

Q12. If other, please specify

Q13. Religion

- ☐ orthodox
- ☐ protestant
- ☐ catholic
- ☐ muslim
- ☐ other

Q14. If other, please specify

Q15. Marital status

- ☐ single
- ☐ married
- ☐ divorced
- ☐ widowed
- ☐ not applicable

Q16. Educational status

- ☐ Illiterate
- ☐ primary (1-8)
- ☐ Secondary (9-12)
- ☐ Tertiary and above
- ☐ Not applicable

Clinical presentations: *(for cases only)**Q17. do you have malaria?**

- ☐ yes
- ☐ no

Q18. What are the signs and symptoms you encountered?

- ☐ fever
- ☐ headache
- ☐ vomiting
- ☐ sweating
- ☐ muscle and joint pain
- ☐ back pain
- ☐ loss of appetite
- ☐ weakness
- ☐ chills
- ☐ rigors
- ☐ others

Q19. if others specify

Q20. if there is fever, duration of fever

Q21. Characteristics of the fever

- ☐ intermittent
- ☐ constant

Q22. how many days since the first symptom started?

in days

Q23. Which malaria complications are there?

For complicated malaria only

- ☐ Altered consciousness
- ☐ Not able to drink or fed
- ☐ Convulsion or recent history of convulsion
- ☐ Difficult breathing
- ☐ Bleeding
- ☐ Jaundice (yellowish coloration)
- ☐ Severe dehydration
- ☐ vomiting every thing
- ☐ Unable to sit or stand up unsupported
- ☐ Pallor (Anemia)
- ☐ No urine output in last 24 hours
- ☐ Others

Q24. If other, please specify

» Health facility visit

Q25. When did you visit health facility?

Q26. Type of health facility you visited?

- ☐ health post
- ☐ health center
- ☐ hospital
- ☐ private clinic

Q27. Was your blood sample taken?

- ☐ yes
- ☐ no

Q28. what was the result?

- ☐ Positive
- ☐ negative
- ☐ unknown

Q29. What was the type of malaria species? (if you told by health professionals)

- ☐ Plasmodium falciparum
- ☐ Plasmodium vivax
- ☐ Mixed malaria
- ☐ They didn't told me
- ☐ They told me. But, I forgot

Q30. Did you get any treatment?

- ☐ yes
- ☐ no

» » Malaria case management**Q31. what treatment did you get?**

- ☐ Coartem tab only
- ☐ Chloroquine tab only
- ☐ Coartem and primaquine
- ☐ Chloroquine and primaquine
- ☐ Artesunate or other injection
- ☐ I don't know

Q32. Did you recover completely after the treatment?

- ☐ yes
- ☐ no

Q33. Place of residence four weeks before the onset of the illness?

- ☐ in this woreda
- ☐ in other woreda

Risk Factors: *(For both cases and controls)

Q34. Do you stay outside overnight?

- ☐ yes
- ☐ on

Q35. What is your frequent working time?

- ☐ day
- ☐ night
- ☐ day and night

Q36. Sleeping areas?

- ☐ Inside home
- ☐ Outside home

Q37. Did you wear long sleeved protective clothing during the night?

- ☐ yes
- ☐ no

Q38. Do you use repellents?

- ☐ yes
- ☐ no

Q39. Is there anybody in your home with similar malaria signs and symptoms?

- ☐ yes
- ☐ no

Q40. Did you travel outside your village in the past 3-4 weeks? (Travel history)

- ☐ yes
- ☐ no

» » Travel history**Q41. Date of travel**

Q42. Place of travel

Q43. Date of returning back to home

Q44. Were there sick patients (same symptoms) in the place where you have been?☐ yes☐ no**Q45. Do you have used bed net in in the place where you stay (traveled)**☐ yes☐ no**Q46. did you have bednets in your house**☐ yes☐ No**» » Bed net availability and utilization****Q47. Number of bed nets in your household currently?***Standard ITN distribution: Family size:1-2=1, Family size:3-4=2, Family size:5-6=3, and Family size:.>=7=4*

Q48. Is the bed net given adequate for the family size?☐ yes☐ no**Q49. Did you use properly all the bed nets given?***(Observe)*☐ yes☐ no**Q50. How often do you use bed nets?**☐ daily☐ Sometimes☐ never

Q51. If you have only one ITN-for whom you give priority to use it?

- ☐ Children <5 years
- ☐ Pregnant mother
- ☐ father

Q52. Was indoor residual spray (IRS) conducted prior to the outbreak? or in this year?

- ☐ yes
- ☐ no

» » IRS status

Q53. When was IRS sprayed?

Q54. If antimalarial chemicals were sprayed, how many months did you kept it without covering the floor with paper, dung or mud?

- ☐ 1 month
- ☐ 2 month
- ☐ 3 month
- ☐ 6 month

Q55. How many times was sprayed in the previous one year?

- ☐ Once
- ☐ twice
- ☐ three and more times

» » Environmental investigation

Q56. Is there any artificial water holding containers close to your home and around your vicinity that could be a potential for mosquito breeding site?

living near mosquito breeding sites? (Look for the presence of artificial water holding bodies

- ☐ yes
- ☐ no

Q57. Presence of intermittent rivers with 1 km radius

- ☐ yes
- ☐ no

Q58. What are these potential mosquito breeding sites? (Observe)

- ☐ Old tires
- ☐ Plant in the containers/flower-posts
- ☐ Plant with temporary water pools
- ☐ Open deep well
- ☐ Stagnant water
- ☐ Broken glass bottles
- ☐ Swampy area
- ☐ Uncovered water storage/septic tank
- ☐ other, specify

Q59. Presence of larvae in the above potential mosquito breeding sites?

Observe with Entomologist or Environmental health professional

- ☐ yes
- ☐ no

Q60. Presence of unprotected irrigation?

- ☐ yes
- ☐ no

Awareness assessment (Knowledge on malaria transmission, prevention, and control)**Q61. Do you know malaria?**

- ☐ Yes
- ☐ No

Q62. If yes to Q61, what are the major sign and symptoms of malaria?

- ☐ fever
- ☐ headache
- ☐ vomiting
- ☐ sweating
- ☐ muscle and joint pain
- ☐ back pain
- ☐ loss of appetite
- ☐ chills and rigors

Q63. do you know the factors for malaria?

- ☐ yes
- ☐ no

Q64. How is malaria transmitted?

- ☐ through bite of mosquito
- ☐ lack of personal hygiene
- ☐ i don't know

Q65. How malaria could be prevented?

- ☐ proper use of ITN
- ☐ IRS
- ☐ Wearing long sleeve clothes and covering head
- ☐ draining collected stagnant water
- ☐ Clearing water collecting materials

Q66. What do you think are the complications of malaria?

- ☐ altered consciousness
- ☐ not able to drink or fed
- ☐ convulsion
- ☐ bleeding
- ☐ anemia
- ☐ weakness
- ☐ jaundice
- ☐ vomiting every thing
- ☐ Severe dehydration
- ☐ others specify

» Attitude**Q67. Do you believe that environmental sanitation like draining collected stagnant water and Clearing water collecting other materials prevent malaria transmission?**

- ☐ yes
- ☐ no

Q68. Do you believe that using ITN during sleeping time prevent from malaria infection?

- ☐ yes
- ☐ no

Q69. If one of your family member infected with malaria what is your measure?

- ☐ Taking in to local traditional healer
- ☐ Giving local medicine at home
- ☐ Taking to holly water
- ☐ taking to prayers
- ☐ Taking to nearest health facility